Agricultural and Forest Meteorology, 59 (1992) 335–336
Elsevier Science Publishers B.V., Amsterdam

Contents of Volume 59, 1992

VOL. 59, NOS. 1–2 — 15 APRIL 1992

Special Issue: Methodology of Climate Change

Introduction 1

Research Papers

An introduction to the methodology, the region of the study, and a historical analog of climate change
W.E. Easterling, N.J. Rosenberg, M.S. McKenney (Washington, DC, USA) and C.A. Jones (Temple, TX, USA) 3

Preparing the erosion productivity impact calculator (EPIC) model to simulate crop responses to climate change and the direct effects of CO_2
W.E. Easterling, N.J. Rosenberg, M.S. McKenney (Washington, DC, USA), C.A. Jones, P.T. Dyke and J.R. Williams (Temple, TX, USA) 17

Validation of EPIC model simulations of crop responses to current climate and CO_2 conditions: comparisons with census, expert judgement and experimental plot data
N.J. Rosenberg, M.S. McKenney, W.E. Easterling and K.M. Lemon (Washington, DC, USA) 35

Simulations of crop response to climate change: effects with present technology and no adjustments (the 'dumb farmer' scenario)
W.E. Easterling, M.S. McKenney, N.J. Rosenberg and K.M. Lemon (Washington, DC, USA) 53

Simulations of crop responses to climate change: effects with present technology and currently available adjustments (the 'smart farmer' scenario)
W.E. Easterling, N.J. Rosenberg, K.M. Lemon and M.S. McKenney (Washington, DC, USA) 75

Simulation of crop productivity and responses to climate change in the year 2030: the role of future technologies, adjustments and adaptations
M.S. McKenney, W.E. Easterling and N.J. Rosenberg (Washington, DC, USA) 103

VOL. 59 NOS.3–4 — JULY 1992

Research Papers

Two-dimensional model of water transport in the root zone and plant for container-

0168-1923/92/$05.00 © 1992 Elsevier Science Publishers B.V. All rights reserved.

grown chrysanthemum
D.-X. Chen and J.H. Lieth (Davis, CA, USA) 129
The statistical relationship between weather-type frequencies and corn (maize) yields in southwestern Pennsylvania, USA
F.B. Dilly (University Park, PA, USA) 149
Performance of Bowen ratio systems on a slope
D. Nie, I.D. Flitcroft and E.T. Kanemasu (Griffin, GA, USA) 165
Springtime weather patterns coincident with long-distance migration of potato leafhopper into Michigan
J.D. Carlson (Stillwater, OK, USA), M.E. Whalon, D.A. Landis and S.H. Gage (East Lansing, MI, USA) 183
Analysis of the effect of heat stress during flowering on the yield of avocado under Mediterranean climatic conditions
J. Lomas (Bet Dagan, Israel) 207
Some measurements of the microclimate within a Sri Lankan tropical rainforest
P.M.S. Ashton (New Haven, CT, USA) 217
Canopy albedo and transmittance in a spruce–hemlock forest in mid-September
T.F. Eck (Lanham, MD, USA) and D.W. Deering (Greenbelt, MD, USA) 237
Correcting errors associated with soil heat flux measurements and estimating soil thermal properties from soil temperature and heat flux plate data
W.J. Massman (Fort Collins, CO, USA) 249
Agrometeorological soil water balance for crop simulation models
N. Brisson, B. Seguin amd P. Bertuzzi (Montfavet, France) 267
Measurement of sap flow by the heat balance method: numerical analysis and application to coniferous seedlings
A. Groot (Sault Ste. Marie, Ont., Canada) and K.M. King (Guelph, Ont., Canada) 289

Short Communications
Prediction of daily mean vapor density from daily minimum air temperature
K.L. Bristow (Townsville, Qld., Australia) 309
WMO Agricultural Meteorology Programme
D. Rijks (Geneva, Switzerland) 319

Book Reviews
The Greenhouse Effect and Primary Productivity in European Agro-Ecosystems 325
The Human Impact of Climate Uncertainty: Weather Information, Economic Planning and Business Management 326
Forests, Weather and Climate 328
Climatic Risk in Crop Production: Models and Management for the Semiarid Tropics and Subtropics 330

Contents of Vol. 59 (1992) 335